DiBos/DiBos Micro

BOSCH

en Operation Manual

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1 Program Start/Login

1.1 Starting the Program

When installation is complete, you can start the program.

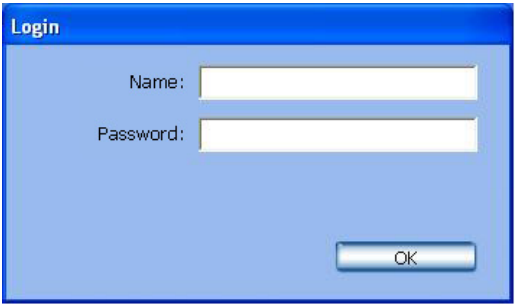
1. Switch on the computer and wait until the desktop interface appears.
2. Double-click the DiBos icon on your desktop or select **Start** - **Programs** - **DiBos**. The computer starts the program and displays the login dialog box.

1.2 Logging on to the System

When the program has started, the dialog box for logging on to the system appears. The dialog box will have a different appearance, depending on whether you have logged on with or without LDAP access.

1.2.1 Logging on to the System (Standard)

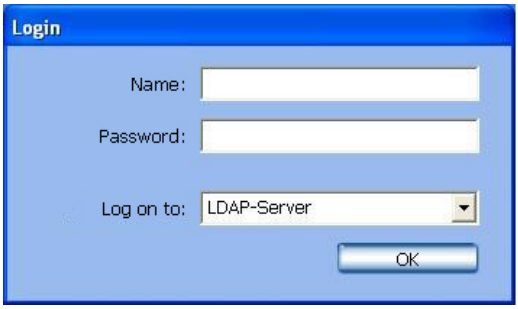
For systems that are not connected to an LDAP server, only the name and password will be required.



1. Enter your user ID in the name input field.
2. Enter your password in the password input field.
3. Click **OK**. You are now in live mode.

1.2.2 Logging on to the System with LDAP Access

For systems that are connected to an LDAP server, an additional selection field will be displayed.



1. Enter your user ID in the name input field.
2. Enter your password in the password input field.
3. Click the down arrow and select the LDAP server if you wish to log on via LDAP. To log on locally, the local system must be selected.
4. Click **OK**. You are now in live mode.

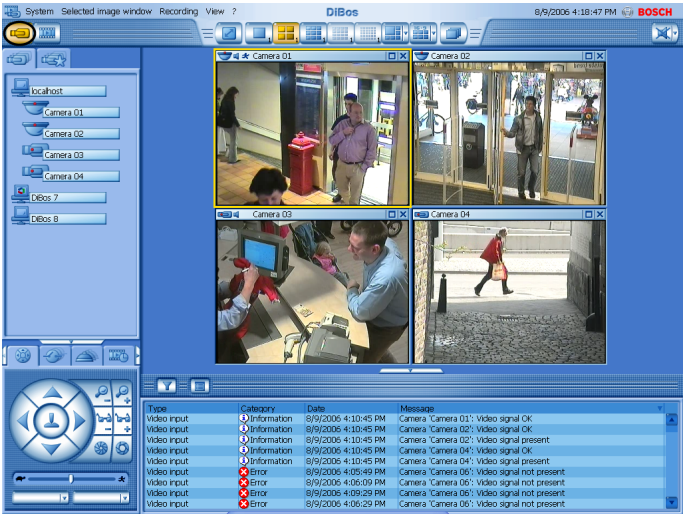
2 The User Interface

You will automatically access live mode every time the system is re-started and every time you log on. You can look at live images from selected cameras in this mode.
To rapidly switch between playback and live mode, just click the button of the mode you want. The button you select is then color-highlighted.

	Button for live mode
	Button for playback mode

2.1 Live Mode

In live mode, you will be able to view live images from the connected cameras.


System Selected image window Recording View ?
DiBos
8/9/2006 4:18:47 PM
BOSCH
Camera 01
Camera 02
Camera 03
Camera 04
localhost
Camera 01
Camera 02
Camera 03
Camera 04
DiBos 7
DiBos 8
Type Category Date Message
Video input Information 8/9/2006 4:10:45 PM Camera 'Camera 01': Video signal OK
Video input Information 8/9/2006 4:10:45 PM Camera 'Camera 02': Video signal OK
Video input Information 8/9/2006 4:10:45 PM Camera 'Camera 02': Video signal present
Video input Information 8/9/2006 4:10:45 PM Camera 'Camera 04': Video signal OK
Video input Information 8/9/2006 4:10:45 PM Camera 'Camera 04': Video signal present
Video input Error 8/9/2006 4:05:49 PM Camera 'Camera 06': Video signal not present
Video input Error 8/9/2006 4:06:09 PM Camera 'Camera 06': Video signal not present
Video input Error 8/9/2006 4:09:29 PM Camera 'Camera 06': Video signal not present
Video input Error 8/9/2006 4:06:29 PM Camera 'Camera 06': Video signal not present

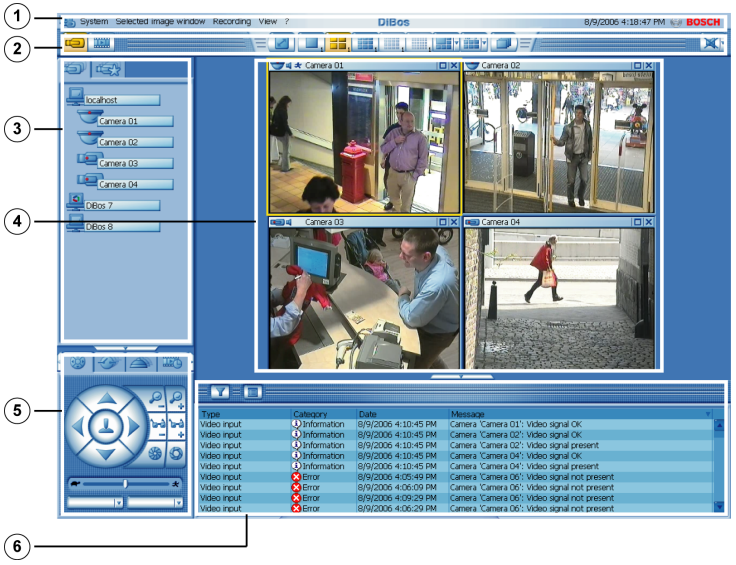
2.2 Playback Mode

In playback mode, you will be able to view saved images.

3 Live Mode

3.1 The User Interface

The user interface is divided into the following areas:


1
2
3
4
5
6
System Selected image window Recording View ?
DiBos
8/9/2006 4:18:47 PM
BOSCH
localhost
Camera 01
Camera 02
Camera 03
Camera 04
DiBos 7
DiBos 8
Type Category Date Message
Video input Information 8/9/2006 4:10:45 PM Camera 'Camera 01': Video signal OK
Video input Information 8/9/2006 4:10:45 PM Camera 'Camera 02': Video signal OK
Video input Information 8/9/2006 4:10:45 PM Camera 'Camera 02': Video signal present
Video input Information 8/9/2006 4:10:45 PM Camera 'Camera 04': Video signal OK
Video input Information 8/9/2006 4:10:45 PM Camera 'Camera 04': Video signal present
Video input Error 8/9/2006 4:05:49 PM Camera 'Camera 06': Video signal not present
Video input Error 8/9/2006 4:06:09 PM Camera 'Camera 06': Video signal not present
Video input Error 8/9/2006 4:09:29 PM Camera 'Camera 06': Video signal not present
Video input Error 8/9/2006 4:06:29 PM Camera 'Camera 06': Video signal not present

1	Menu bar with current date and time (see *Section 3.2 The Menu Bar*)
2	Display bar (see *Section 3.3 The Display Bar*)
3	Device list with cameras and remote stations (see *Section 3.4 The Device List*)
4	Image area with image windows (see *Section 3.5 The Image Area*)
5	Control and status field (see *Section 3.6 The Control and Status Field*)
6	Event field (see *Section 3.7 The Event Field*)

3.2 The Menu Bar

The menu bar has the following functions:

System	
Configuration wizard	Helps you to create a basic system configuration quickly.
Configuration	Displays the configuration.
Database information	Displays information on the cameras, e.g. free and used memory, average image size etc. It is displayed for the local system and for configured and connected remote stations.
Logbook	Displays specific events for local systems or a remote station.
Log off/Change user	Logs the user off the system. The system continues running in the background. A different user can log on.
Changing the password	The existing password is changed when a new password is entered.
Exit	Exits the program (administrator rights necessary).

Selected image window	
Save image	Saves the image displayed in the selected image window. It can be saved as an HTML, BMP, JPG, GIF, TIF or PNG file. If it is saved as a HTML file, the additional data is also saved.

Print image	Prints the image displayed in the selected image window (including the additional data).
Motion data	Shows the areas where a motion was detected in the selected image window. To hide it, repeat the command. **Note:** It is only possible to search for motion with locally connected cameras.

View	
Large icons	Displays the icons in the device list in large format. To reduce their size, repeat the command.
Large image area	Enlarges the image area and reduces the size of the event field. To reduce the size of the image area, select the command again.
Large device list	Enlarges the device list and reduces the size of the control and status fields. To reduce the size of the device list, select the command again.
Display local time	Shows the actual recording date and recording time of the device to which the cameras are connected.

?	
Help	Displays online help.
Info	Displays system information.

3.3 The Display Bar

The display bar contains the following buttons:

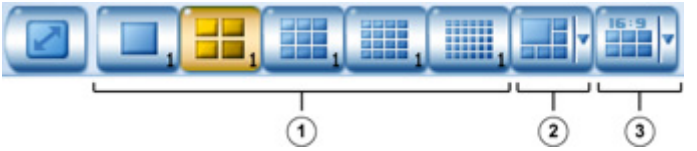
3.3.1 Buttons for Live and Playback Mode

	Button for live mode
	Button for playback mode

3.3.2 Button for Full Image

	Enlarges the image area to full image size. To return to the original image display, press the ESC key or double-click the right mouse button.

3.3.3 Buttons for Image Display



The individual buttons show how many image windows are displayed in the image area.

– (1) Aspect ratio 4:3
When these buttons are selected, the image area is divided into image windows of equal size.

– (2) Aspect ratio 4:3
Click the down arrow to show the individual views.

Note: The most recently used view is copied to the display bar.

– (3) Aspect ratio 16:9

This button allows you to optimize the image area for wide-screen displays. Click the down arrow to show the individual views.

Note: The most recently used view is copied to the display bar.

1 image window is selected in every display you select. The display you select appears with a yellow border. The image from the camera which you select from the device list by double-clicking is shown in this image window.
The number to the right beneath the button shows the user how often he has already clicked this button. This number also shows which cameras have been selected or which cameras will be selected the next time the user clicks this button.

Example:
With 12 cameras and 2x 2-image windows this means:
You can click the button three times to display all cameras.

	Cameras 1 to 4 are displayed (the number "1" appears on the right beneath the button).
	Cameras 5 to 8 are displayed (the number "2" appears on the right beneath the button).
	Cameras 9 to 12 are displayed (the number "3" appears on the right beneath the button).

3.3.4 Button for Camera Round

	A dialog box opens after the button is clicked. Enter the time after which the system will switch from one camera to the next. With a camera round, all cameras selected in the image area are displayed one after the other. **Note:** Clicking the button again ends the camera round.

3.3.5 Button for Switching the Sound On and Off

		Clicking this button switches the sound on or off. To adjust the volume, click the down arrow.
		Select the volume you require with the volume control.

3.4 The Device List

The device list is located on the left-hand side of the screen.
Depending on what is selected, the following are displayed:

– Configured cameras and/or DiBos devices
– Favorites view
– Incoming alarms.

Configured cameras and/or DiBos devices

All locally connected cameras are listed.
If remote stations have been configured, they are listed along with the cameras connected to them.
Network remote stations are automatically connected to the local system.

– **DiBos device** (localhost or remote station)
Right-click the icon to call up the following commands:
Connect
Creates the connection to the DiBos device.
Disconnect
Disconnects the connection to the DiBos device. The DiBos device remains disconnected (even after a reboot), until it is reconnected manually.
RAS remote stations must likewise be connected manually.
Configuration
With localhost: the default configuration opens.
With remote stations: the configuration opens in remote mode.
Display all cameras
Displays all the DiBos device cameras in the image area.

Favorites view

Favorites which have been saved are listed and can be called up by double-clicking the icon. New favorites can be created.
Note: Favorites are a number of cameras that are displayed in a specific way, e.g. cameras 1 - 4 in the 2x2 image window view.

Incoming alarms

The icon flashes red after alarms have been received in the system. It is only displayed if there are alarms in the system.

Automatic display of alarm cameras

Automatic display of alarm cameras can be configured.

The tab flashes red and the alarm cameras are displayed. An audio signal sounds, if this has been configured.

Automatic alarm recording

Incoming alarms can be recorded automatically (standard) or manually on the recipient. The selection is made in the configuration. In both cases, all the cameras that are assigned to the alarm in the device list are displayed. Recording takes place without audio.

The tab flashes red.

Enlarging and Reducing the Size of the Device List

Click the bar between the device list and the control and status field.

	Reduces the size of the device list
	Enlarges the device list

NOTICE!

For icons shown in the device list, see *Section 8 The Icon Overview*.

3.5 The Image Area

The middle of the screen is where live images are displayed. Arrange this area to suit your requirements.

3.5.1 The Image Area Layout

Specify the number and layout of image windows in the image area

In the display bar, you can specify what the image area looks like, i.e. the number and layout of the image windows (see *Section 3.3.3 Buttons for Image Display*).

Place individual cameras in the image area

After selecting the image display, you will now want to display specific cameras.

You can do so as follows:

– Double-clicking

  Double-clicking a camera icon in the device list places the camera in the selected image window (with the yellow border).

  Left-click with the mouse to select a different image window. Double-clicking a different camera icon places its image in the new image window that you have just selected.

– "Drag and Drop"

  Press and hold the left mouse button and drag the camera icon from the device list into an image window. Release the mouse button and the image of this camera appears in the image window.

NOTICE!

In the image area, each camera can only be displayed once.

Move cameras within the image area

In a multiple-image display, you can move cameras within the image area.

To do so, move the mouse cursor into the title bar of an image window, press and hold the left mouse button and drag the camera into a different image window. Release the mouse button and the image of this camera appears in the image window.

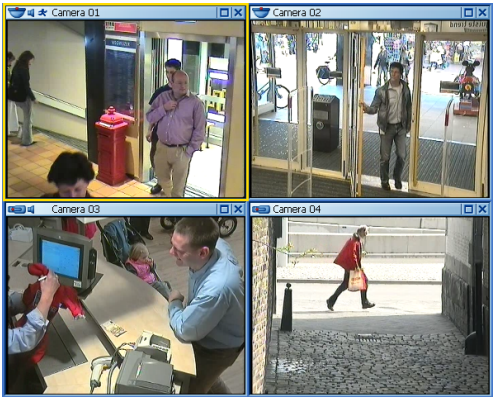
Enlarge and reduce the size of the image area

Click the bar beneath the image area.

	Reduces the size of the image area.
	Enlarges the image area.

3.5.2 The Image Window

Depending on which button is selected in the display bar for the image area layout, the image area will be divided into one or several image windows.



The selected image window appears with a yellow border. The image from the camera which you select from the device list by double-clicking is shown in this image window. If an audio source has been assigned to the camera, this is also selected. If a user is authorized to view live or saved images, he is also authorized to listen to an audio recording which accompanies these images.
In addition to the camera image display, each image window has a title bar with information and buttons about the image, as well as a zoom function.

The image window title bar

The title bar contains

- an icon describing the type of camera (see *Section 8 The Icon Overview*)
- the name of the camera
- an icon which indicates whether the image also has an audio source

	Camera with audio source

– an icon which displays the motion in the sensitive area of the image

	The system recognizes a motion in the sensitive area of the image. **Note:** This will only be displayed if the sensor technology is activated in the camera's configuration.

– Buttons for enlarging, reducing the size of and de-selecting the image.

	The image window is enlarged so that it fills the entire image area.
	The image window is reduced to its original size.
	The camera is de-selected. No camera image is displayed. The image window is blue.

NOTICE!
Dome cameras and pan/tilt cameras can be controlled in the image window.

Image window zoom function

Every single image window has a zoom function. To use this function, move your mouse cursor into an image window. The mouse cursor now changes from an arrow into a magnifying glass.

	Using the zoom function with fixed cameras: Left-click or scroll with the mouse wheel. The image is digitally zoomed. In order to show that an image has been zoomed, a magnifying glass is shown in the bottom right-hand corner of the image window. Right-click or scroll with the mouse wheel. The image is reset to the original size. The magnifying glass in the bottom right-hand corner of the image window disappears. **Note:** The part of the image where the magnifying glass is located is zoomed.
	Zooming with dome cameras and pan/tilt cameras: Dome and pan/tilt cameras can be zoomed in the image window using their own control functions. To do this, move the cursor into the middle of the image window until a magnifying glass appears with a plus or minus sign. Left click with the mouse or scroll with the mouse wheel to enlarge or minimize the area.

3.6 The Control and Status Field

A selection is made by clicking the buttons

	The control field for dome cameras and pan/tilt cameras is displayed (see *Section 3.6.1 Control field for Dome Cameras and Pan/Tilt Cameras*).
	The configured relays are displayed (see *Section 3.6.2 Displaying the Relays*).
	The configured alarm inputs are displayed (see *Section 3.6.3 Displaying the Alarm Inputs*).
	Instant playback is started (see *Section 3.6.4 Instant Playback*).
	The control field for monitors is displayed (see *Section 3.6.5 Control Field for Monitors*).
	Displays hidden icons.

3.6.1 Control field for Dome Cameras and Pan/Tilt Cameras

After selecting this tab , the control field for dome cameras and pan/tilt cameras is displayed.
The control field will not be active until a dome camera and pan/tilt camera is displayed in the selected image window. The individual elements are highlighted when you move over them with the mouse cursor.
If no dome camera or pan/tilt camera has been selected, the control field is inactive.

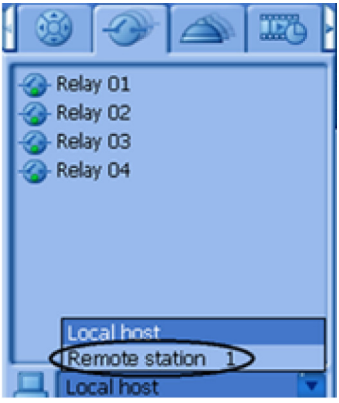
	Pan the camera to the left/right.
	Pan the camera up/down.
	Pans the camera in all directions. Move the mouse cursor to the icon and drag it in the direction you would like to pan the camera while holding down the left mouse button.
	Enlarges (wide angle)/reduces (tele) the image angle.
	Focus far/focus near (sets the image so it is in focus).
	Close iris/open iris

	Sets the pan, tilt and zoom speed.
(on left)	Camera positions which have been set can be called up. To do so, click the down arrow and make your selection.
(on right)	Camera commands which have been saved can be called up. To do so, click the down arrow and make your selection.

NOTICE!
It is also possible to control these functions in the image window.

3.6.2 Displaying the Relays

After selecting the tab, all locally configured relays and their statuses are displayed.
If remote stations have been configured, a selection field appears in the lower area. Click the down arrow, and select the remote station in order to list the relays connected to it.



The relays can be activated or deactivated as follows:

– Double-click with the left mouse button on the relay icon

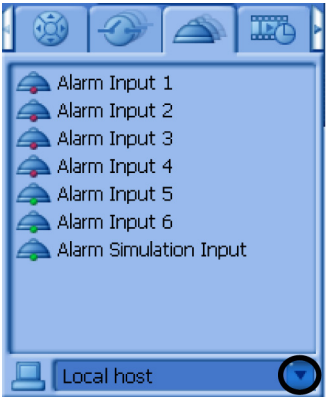
or

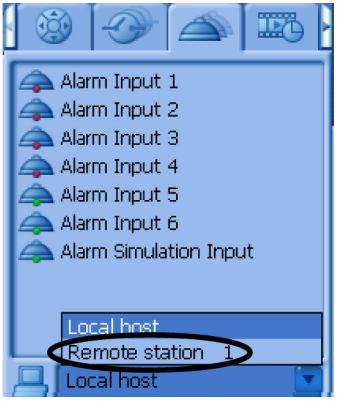
– Right-click and select the **Activate**/**Deactivate** command

	The relay is inactive.
	The relay is active.

3.6.3 Displaying the Alarm Inputs

After selecting the tab, all locally configured alarm inputs and their statuses are displayed.
If remote stations have been configured, a selection field appears. Click the down arrow, and select the remote station in order to list the alarm inputs connected to it.

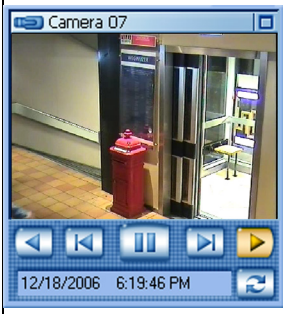
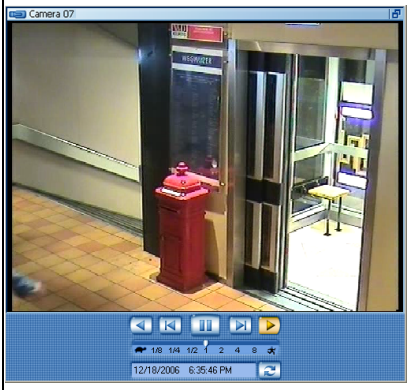


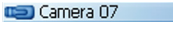


NOTICE!
Alarm simulation inputs can be activated/deactivated by double-clicking or right-clicking.

3.6.4 Instant Playback

After selecting the tab, the images which have been saved in the selected camera are played back instantly as live images. This means you will see the live image from the camera and the image saved from this camera about 30 seconds ago. Playback is in real time. The time delay is set in the configuration.

Display in control and status field	Enlarged display
	

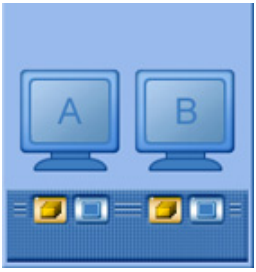
	Name of the camera
	Enlarges the image. The image is displayed in a window which can be moved and whose size can be changed.
	Reduces the size of the image (icon is located in the top right-hand corner of the enlarged image).
	Play reverse (real time)
	Single image backwards

	Pause
	Single image forward
	Play forward (real time)
	Slider for changing the playback speed with enlarged display. For an explanation of the icons, see *Section 4.6.9 Changing the Playback Speed*.
	Time at which the playback occurs. You can start playback in the enlarged display at any time. Just click day, month, year, hour, minute or second and enter the time you want. Confirm the entries with **Enter**. The image taken at this time will be displayed.
	Playback starts at the configured time. The value which has been set in the configuration is used, i.e. there is a 30-second time delay between playback and the live image.

NOTICE!
If a camera is not recording any images, a black image is displayed in the instant playback window.

3.6.5 Control Field for Monitors

After selecting the tab, 2 monitors are displayed in the control field. Only locally connected cameras can be displayed on the monitors.



	Monitor A and B.
	Starts sequence i.e. all cameras which have been assigned to the monitor in the configuration are displayed one after the other.
	You return to the default view, i.e. the configured camera is displayed on the monitor.

A monitor can be assigned a camera and sequence.

Assigning using "Drag and Drop"

A camera is assigned to a monitor using "Drag and Drop". This procedure can be repeated as often as necessary. When a new user logs on, the camera which has been assigned with "Drag and Drop" is replaced by the camera assigned in the configuration.

– §Press and hold the left mouse button, drag a camera from the camera list onto the monitor in the control field.

or

– Place the mouse cursor in the title bar of an image window, press and hold the left mouse button and drag the camera onto the monitor.

Assigning in the configuration

In the configuration, specify which camera is to be displayed by default on which monitor, and which cameras are to be played as a sequence.

NOTICE!

The configuration specifies which cameras are visible for which users.

Enlarging and Reducing the Size of the Control and Status Field

Click the bar above the control and status field.

	Enlarges the control and status field.
	Reduces the size of the control and status field.

3.7 The Event Field

The event field is located directly beneath the image area.
The event field contains:

- an event list.
- a button for filtering these events.
- a button for displaying the logbook.

Enlarging or reducing the size of the event field

If the event field has been reduced in size, the event list only contains one message.

	Reduces the size of the image area and enlarges the event field.
	Enlarges the image area and reduces the size of the event field.

3.7.1 The Event List

The 100 most recent events are listed in an event list in the event field. If the list contains more entries than can be displayed on the screen, you can scroll up and down using the mouse wheel or the bar on the right-hand side.

Sorting the list

Entries are displayed with **Category**, **Type**, **Date** and **Message**. You can also sort by these criteria.
Left-click a field in the title bar, e.g. **Category**. An arrow appears on the right-hand side of the field.

An arrow in the title bar field shows the criterion by which the entries have been classified. The direction of the arrow - upward or downward - shows whether the column has been sorted in ascending or descending order. You can switch between ascending and descending order by clicking with the mouse.

	The column is classified in ascending order. **Note:** It is only when the **Date** column is sorted in ascending order that the latest events appear right at the top of the list.
	The column is classified in descending order.

Changing the sequence of columns

Hold down the left mouse button to drag a title bar field to the required position in the title bar. Release the mouse button and the field is inserted in this position.

Changing the column width

Click the dividing line between the columns until a cross with arrow heads pointing left and right appears. Hold the left mouse button down and move this cross to the right or left. The column width is changed.

	Moving the arrowhead to the left or right changes the column width.

3.7.2 Button for Filtering the Events

You can filter the list by certain criteria such as start and shutdown operations, inputs, cameras etc. in order to get a quick overview of which events are in the list. After filtering the list, only those events that match the criteria you have selected will be displayed.

	Calls up the filter dialog box.

3.7.3 Button for Displaying the Logbook

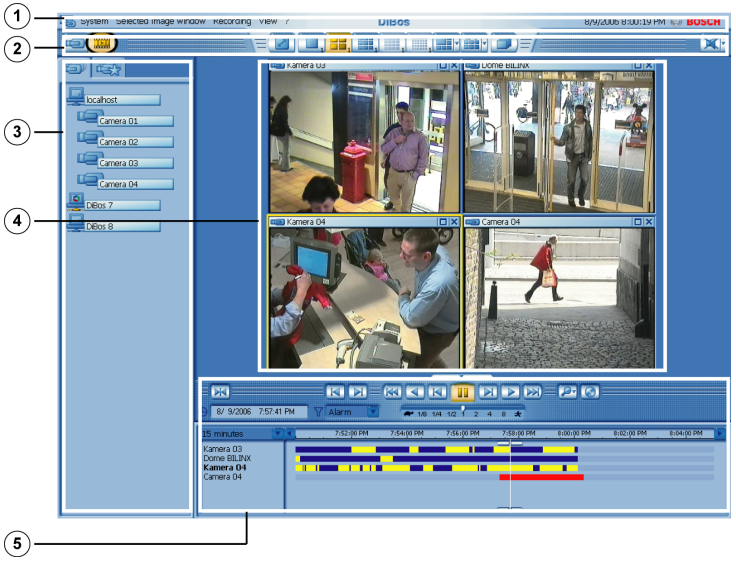
This function allows you to look for specific events such as start and shutdown operations, system alarms and back-up procedures in the local system or a remote station. The logbook contains up to 250,000 entries.

	Calls up the logbook.

4 Playback Mode

4.1 The User Interface

The user interface is divided into the following areas:



1	Menu bar with date and time (see *Section 4.2 The Menu Bar*)
2	Display bar (see *Section 4.3 The Display Bar*)
3	Device list with cameras and remote stations (see *Section 4.4 The Device List*)
4	Image area with image window (see *Section 4.5 The Image Area*)
5	Timeline area and search results (see *Section 4.6 The Timeline Area*)

4.2 The Menu Bar

The menu bar has the following functions.

System	
Configuration wizard	Helps you to create a basic system configuration quickly.
Configuration	Displays the configuration.
Database information	Displays information on the cameras, e.g. used and free memory, average image size etc.
Logbook	Displays specific events for local systems or a remote station.
Log off/Change user	Logs the user off the system. The system continues running in the background. A different user can log on.
Changing the password	The existing password is changed when a new password is entered.
Exit	Exits the program (administrator rights necessary).

Selected image window	
Save image	Saves the image displayed in the selected image window. It can be saved as a BMP, JPG or HTML file. If it is saved as a HTML file, the additional data is also saved.
Print image	Prints the image displayed in the selected image window (including the additional data).
Image properties	Displays the properties of the selected image, e.g. recording time, image size, image compression, authentication. Properties are displayed directly below the image.

Motion data	Shows the areas where a motion was detected in the selected image window. To hide it, repeat the command. **Note:** It is only possible to search for motion with locally connected cameras.
Additional data	Shows additional data in the selected image window under the camera image. To hide it, repeat the command.
Authenticate	Checks whether the image in the selected image window has been changed. Only the displayed image is checked.
Searching for motion	Checks the motion information for the image in the selected image window. You can enter a time period and select the image areas. **Note:** It is only possible to search for motion with locally connected cameras.

Recording	
Export	Exports video and audio data to a CD/DVD drive, a network drive or a USB drive. The files are exported in DiBos or ASF format. When exporting data in DiBos format, the Bosch Archive Player can also be stored. Administrator rights are necessary for installing the Bosch Archive Player. Only user rights are necessary for playback. The Bosch Archive Player can run on all Windows XP and Windows 2000 systems. Data which has been exported in ASF format can be played with default software, e.g. Windows Media Player.
Load exported video	Shows exported data.
Hide exported video	Hides exported data.
Authenticate video	Checks the images from all cameras displayed in the image area to see whether they have been changed. The time period can be entered or highlighted with the hairline in the timeline area.
Search for additional data of displayed cameras	Searches the saved images from all cameras displayed in the image area for additional data, e.g. for ATM data. The time period can be entered or highlighted with the hairline in the timeline area.

Search for additional data from all cameras	Searches the saved images from all local cameras and all cameras that are connected via remote network stations for additional data, e.g. for ATM data. The time period can be entered or highlighted with the hairline in the timeline area.
Protect video	When the selection has been made, a dialog box is displayed. In this dialog box, you must enter the time period during which saved images cannot be overwritten. Only images from an entire day can be protected. **Note:** This function relates to all cameras that are displayed in the image area.
Recording: remove protection	When the selection has been made, a dialog box is displayed. In this dialog box, you must enter the time period during which write protection on saved images is removed. Write protection can only be removed from images from an entire day. **Note:** This function relates to all cameras that are displayed in the image area.

Delete video	When the selection has been made, a dialog box is displayed. In this dialog box, you must enter the time period during which the saved images are deleted. Only images from an entire day can be deleted. **Note:** This function relates to all cameras that are displayed in the image area.

View	
Large icons	Displays the icons in the device list in large format. To reduce their size, repeat the command.
Large image area	Enlarges the image area and reduces the size of the event field. To reduce the size of the image area, select the command again.
Display local time	Shows the actual recording date and recording time of the device to which the cameras are connected.

?	
Help	Displays online help.
Info	Displays system information.

4.3 The Display Bar

The display bar contains the following buttons:

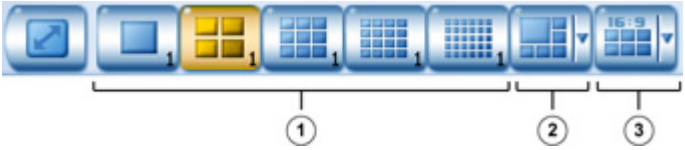
4.3.1 Buttons for Live and Playback Mode

	Button for live mode
	Button for playback mode

4.3.2 Button for Full Image

	Enlarges the image area to full image size. To return to the original image display, press the ESC key or double-click the right mouse button.

4.3.3 Buttons for Image Display



The individual buttons show how many image windows are displayed in the image area.

– (1) Aspect ratio 4:3
When these buttons are selected, the image area is divided into image windows of equal size.

– (2) Aspect ratio 4:3
Click the down arrow to show the individual views.

Note: The most recently used view is copied to the display bar.

– (3) Aspect ratio 16:9
This button allows you to optimize the image area for wide-screen displays. Click the down arrow to show the individual views.

Note: The most recently used view is copied to the display bar.

At least 1 image window is selected in every display you select. The display you select appears with a yellow border. The image from the camera which you select from the device list by double-clicking is shown in this image window.
The number to the right beneath the button shows the user how often he has already clicked this button. This number also shows which cameras have been selected or which cameras will be selected the next time the user clicks this button.

Example:
With 12 cameras and 2x 2-image windows this means:
You can click the button three times to display all cameras.

	Cameras 1 to 4 are displayed (the number "1" appears on the right beneath the button).
	Cameras 5 to 8 are displayed (the number "2" appears on the right beneath the button).
	Cameras 9 to 12 are displayed (the number "3" appears on the right beneath the button).

4.3.4 Button for Camera Round

	A dialog box opens after the button is clicked. Enter the time after which the system will switch from one camera to the next. With a camera round, all cameras selected in the image area are displayed one after the other. **Note:** Clicking the button again ends the camera round.

4.3.5 Button for Switching the Sound On and Off

		Clicking this button switches the sound on or off. To adjust the volume, click the down arrow.
		Select the volume you require with the volume control.

4.4 The Device List

The device list is located on the left-hand side of the screen.
Depending on what is selected, the following are displayed:

- Configured cameras and/or DiBos device.
- Favorites view
- Incoming alarms.
- Exported data

Configured cameras and/or DiBos devices

All locally connected cameras are listed.
If remote stations have been configured, they are listed along with the cameras connected to them.
Network remote stations are automatically connected to the local system.

- **DiBos device** (localhost or remote station)
  Right-click the icon to call up the following commands:
  Connect
  Creates the connection to the DiBos device.
  Disconnect
  Disconnects the connection to the DiBos device. The DiBos device remains disconnected (even after a reboot), until it is reconnected manually.
  RAS remote stations must likewise be connected manually.
  Configuration
  With localhost: the default configuration opens.
  With remote stations: the configuration opens in remote mode.
  Display all cameras
  Displays all the DiBos device cameras in the image area.

Favorites view

Favorites which have been saved are listed and can be called up by double-clicking the icon. New favorites can be created.
Note: Favorites are a number of cameras that are displayed in a specific way, e.g. cameras 1 - 4 in the 2x2 image window view.

Incoming alarms

The icon flashes red after alarms have been received in the system. It is only displayed if there are alarms in the system.

Showing exported data

The icon is only displayed if exported data is shown.

Automatic display of alarm cameras

Automatic display of alarm cameras can be configured.

The tab flashes red and the alarm cameras are displayed. An audio signal sounds, if this has been configured.

Automatic alarm recording

Incoming alarms can be recorded automatically (standard) or manually on the recipient. The selection is made in the configuration. In both cases, all the cameras that are assigned to the alarm in the device list are displayed. Recording takes place without audio.

The tab flashes red.

NOTICE!
For icons shown in the device list, see *Section 8 The Icon Overview*.

4.5 The Image Area

The middle and right-hand side of the screen is where images that have been saved are displayed.
Arrange this area to suit your requirements.

4.5.1 Image Area Layout

Specify the number and layout of image windows in the image area

In the display bar, you can specify what the image area looks like, i.e. the number and layout of the image windows (see *Section 4.3.3 Buttons for Image Display*).

Place individual cameras in the image area

After selecting the image display, you will now want to display specific cameras.
You can do so as follows:

– Double-clicking
  Double-clicking a camera icon in the device list places the camera in the selected image window (with the yellow border).
  Left-click with the mouse to select a different image window. Double-clicking a different camera icon places its image in the new image window that you have just selected.
– "Drag and Drop"
  Press and hold the left mouse button and drag the camera icon from the device list into an image window. Release the mouse button and the image of this camera appears in the image window.

NOTICE!
In the image area, each camera can only be displayed once.

Move cameras within the image area

In a multiple-image display, you can move cameras within the image area.

To do so, move the mouse cursor into the title bar of an image window, press and hold the left mouse button and drag the camera into a different image window. Release the mouse button and the image of this camera appears in the image window.

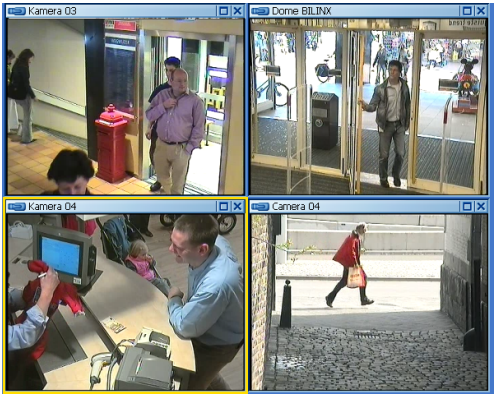
Enlarge and reduce the size of the image area

Click the bar beneath the image area.

	Reduces the size of the image area.
	Enlarges the image area.

4.5.2 The Image Window

Depending on which button is selected in the display bar for the image area layout, the image area will be divided into one or several image windows.



The selected image window appears with a yellow border. The image from the camera which you select from the device list by double-clicking is shown in this image window. If an audio source has been assigned to the camera, this is also selected. If a user is authorized to view live or saved images, he is also authorized to listen to an audio recording which accompanies these images.
In addition to the camera image display, each image window has a title bar with information and buttons about the image, as well as a zoom function.

The image window title bar

The title bar contains

- an icon describing the type of camera (see *Section 8 The Icon Overview*)
- the name of the camera
- an icon which indicates whether the image also has an audio source

	Camera with audio recording

– Buttons for enlarging, reducing the size of and de-selecting the image.

	The image window is enlarged so that it fills the entire image area.
	The image window is reduced to its original size.
	The camera is de-selected. No camera image is displayed. The image window is blue.

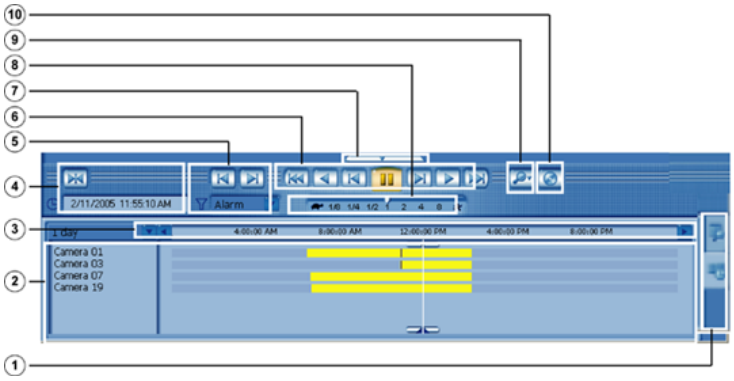
Image window zoom function

Every single image window has a zoom function. To use this function, move your mouse cursor into an image window. The mouse cursor now changes from an arrow into a magnifying glass.

	Using the zoom function with fixed cameras, dome cameras and pan/tilt cameras: Left-click or scroll with the mouse wheel. The image is digitally zoomed. In order to show that an image has been zoomed, a magnifying glass is shown in the bottom right-hand corner of the image window. Right-click or scroll with the mouse wheel. The image is reset to the original size. The magnifying glass in the bottom right-hand corner of the image window disappears. **Note:** The part of the image where the magnifying glass is located is zoomed.

4.6 The Timeline Area

The timeline area is divided as follows:



1	Tabs so you can choose to display a camera list with timeline or a list of the search results (see *Section 4.6.1 Camera List with Timeline/List of Search Results*).
2	Camera list with timeline or list of the search results (see *Section 4.6.2 Camera List with Timeline* and *Section 4.6.3 List of Search Results*).
3	Measuring unit for the timeline (month, day etc.) or search results title bar (see *Section 4.6.4 Timeline Measuring Unit/Search Results Title Bar*).
4	Date and time of the selected image (see *Section 4.6.5 Date and Time*).
5	Selecting previous/next event (see *Section 4.6.6 Searching for a Previous or Next Event*).
6	Recorder buttons for playing back the saved image sequences (see *Section 4.6.7 The Recorder Buttons*).
7	Reducing the size of/enlarging the timeline area (see *Section 4.6.8 Reducing the Size of/Enlarging the Timeline Area*).

8	Speed controller for changing the playback speed (see *Section 4.6.9 Changing the Playback Speed*).
9	Search function button (see *Section 4.6.10 Calling up the Search Functions*).
10	Button for exporting data (see *Section 4.6.11 Exporting Image Data*).

4.6.1 Camera List with Timeline/List of Search Results

The display in this area depends on whether the tab for displaying the camera list with timeline or the tab for displaying the search results has been selected.

	Displays a camera list with timeline for every camera in the image area.
	Displays a list of the search results. Only after a search has been performed will you get the tab which shows you whether search results are available or not.

4.6.2 Camera List with Timeline

(the tab must be selected)

A camera list with timeline is displayed for every camera in the image area.

The timeline contains the following information:

Alarm recording	Red
Motion recording	Yellow
Continuous recording	Blue
No video signal	Black
Protected data	Shading
Audio data available	Thin green line above the timeline
No recording	Light blue

As well as giving information on the type of recording and the date, the timeline can also be used to select a time period or a point in time.

Selecting a time period using the timeline's hairline

(the tab must be selected)

You can select a time period in the timeline using the hairline. This selection is necessary when carrying out the following actions:

– Search for motion (see *Section 7.3 Searching for Motion*)

- Search for additional data (see *Section 7.4 Searching for Additional Data*)
- Export files (see *Section 7.7 Exporting Files*)
- Authenticate images from several cameras (see *Section 7.5 Authenticating Images from Several Cameras*)
- Protect video (see *Section 7.9 Protecting Video*)
- Recording: remove protection (see *Section 7.10 Removing the Protection from a Recording*)
- Delete video (see *Section 7.11 Deleting a Video*)

Move the mouse cursor to the bottom anchor of the hairline and drag it to the required time period.

Selecting a time using the timeline's hairline

(the tab must be selected)
You can access a specific time in the timeline via the hairline.

Move the mouse cursor to the top anchor of the hairline and drag it to the required time. The images which have been found are displayed in the image area.

NOTICE!
Left-click the timeline to position the hairline in that location.

4.6.3 List of Search Results

(the tab must be selected)

After a search has been performed, a list of the search results is displayed. Double-clicking with the left mouse button on a search result shows the image sequence in the selected image window.

Left-clicking selects the entry. This selected entry can be exported to a data carrier (see *Section 7.7 Exporting Files*).

4.6.4 Timeline Measuring Unit/Search Results Title Bar

The display in this area depends on whether the tab for displaying the camera list with timeline or the tab for displaying the search results has been selected.

Changing the measuring unit of the timeline

(the tab must be selected)

You can set four different measuring units - 1 month, 1 day, 4 hours, 15 minutes.

Click the down arrow (on left) and select the measuring unit.

Navigating in the timeline (forward and backward):

– Use the right and left arrows

or

– Place the mouse cursor on the line and scroll with the mouse wheel

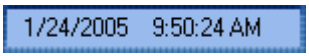
The search results title bar

(the tab must be selected)

Search results can be sorted. The column width and sequence can be changed.

4.6.5 Date and Time

The saved images can be searched according to date and time (see *Section 7.1 Searching for Date and Time*).

	The cursor is positioned in the timeline area.
	Displays the date of the selected image window.

4.6.6 Searching for a Previous or Next Event

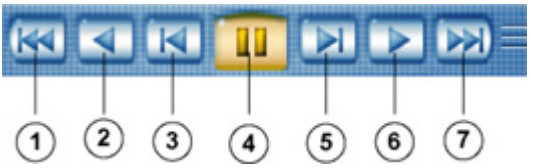
Using the arrow keys, jump to the next or previous saved event from the cameras displayed (see *Section 7.2 Searching for Events*).

The following events are available:

- Alarm
- Motion
- Video loss
- Continuous recording
- Protected

4.6.7 The Recorder Buttons

The recorder buttons are used to play back the saved image sequences. In multiple-image display, the images are played back in all image windows simultaneously. If a user is authorized to view saved images, he is also authorized to listen to an audio recording which accompanies these images.



1	Jump to the start of the recording
2	Play video in reverse in real time or at changed speed. The speed is set with the speed controller. **Note:** This function is not available if more than 4 cameras are displayed in the image area.
3	Single image reverse **Note:** This function is not available if more than 4 cameras are displayed in the image area.
4	Pause
5	Single image forward
6	Play forward in real time or at changed speed. The speed is set with the speed controller. **Note:** Audio playback is in real time mode.
7	Jump to the end of the recording.

4.6.8 Reducing the Size of/Enlarging the Timeline Area

Click the bar above the timeline area.

	Reduces the size of the image area and enlarges the timeline area.
	Enlarges the image area and reduces the size of the timeline area.

When reducing the size of the timeline area the events saved from the cameras displayed appear on a single timeline. If events overlap, they are displayed in the following order:

Priority 1	No camera signal
Priority 2	Alarm recording
Priority 3	Motion recording
Priority 4	Continuous recording
Priority 5	No recording

4.6.9 Changing the Playback Speed

Hold down the left mouse button and drag the slide control to the left to reduce the playback speed. Dragging the slide control to the right will increase the playback speed.
You can also rotate the mouse wheel to change the playback speed. The mouse cursor must be positioned directly over the slide control bar.

	Play back at 1/16 of the recording speed
1/8	Play back at 1/8 of the recording speed
1/4	Play back at 1/4 of the recording speed
1/2	Play back at 1/2 of the recording speed
1	Playback speed = recording speed
2	Play back at double the recording speed
4	Play back at four times the recording speed
8	Play back at eight times the recording speed
	Every 30th image is displayed (I-frame).

4.6.10 Calling up the Search Functions

	Click the down arrow to allow the following search functions to be selected.
Searching for motion	Opens a dialog box. In the **Search for motion** function, the image in the selected image window can be checked for motion (see *Section 7.3 Searching for Motion*).
Search displayed cameras	Searches the saved images from all cameras displayed in the image area for additional data, e.g. for ATM data (see *Section 7.4 Searching for Additional Data*).
Searching all cameras	Searches the saved images from all local cameras and all cameras that are connected via remote network stations for additional data, e.g. for ATM data (see *Section 7.4 Searching for Additional Data*).

The search results are displayed in the lower part of the screen.

An additional tab is shown at the bottom right of the screen.

4.6.11 Exporting Image Data

	Exports video and audio data to a CD/DVD drive, a network drive or a USB drive. The files are exported in DiBos or ASF format. When exporting data in DiBos format, the Bosch Archive Player can also be stored. Administrator rights are necessary for installing the Bosch Archive Player. Only user rights are necessary for playback. The Bosch Archive Player can run on all Windows XP and Windows 2000 systems. Data which has been exported in ASF format can be played with default software, e.g. Windows Media Player. Individual search results or selected time periods can be exported. **Note:** Only one search entry can be exported at a time. If you have to export more than one entry, repeat the process.

5 Operation - Live/Playback Mode

5.1 Displaying Incoming Alarms

Incoming alarms of cameras can be displayed automatically or non-automatically.

5.1.1 Non-automatic Display of Incoming Alarms

When incoming alarms are received, a red flashing tab is added to the device list. An audio signal sounds, if this has been configured.

1. Select the tab. The cameras or remote stations in alarm status are listed. The audio signal is switched off.
2. Double-clicking the camera icon shows the image in the selected window of the image area. The image can be displayed in any window of your choice by using "Drag and Drop".
3. By right-clicking the remote station icon, you can acknowledge the alarm, delete the alarm or display all the cameras in alarm status.

Acknowledge alarm	Acknowledges the alarm. The flashing tab becomes static.
Delete alarm	Deletes the remote station from the device list.
Display all alarms	Displays all alarms in the image area. The system automatically selects the best type of display.

NOTICE!
The incoming alarms are saved in the logbook.

5.1.2 Automatic Display of Incoming Alarms

When incoming alarms are received, a red flashing tab is added to the device list. The cameras or remote stations in alarm status are shown in the device list and the images are automatically displayed. An audio signal sounds, if this has been configured.

- ▶ By right-clicking the remote station icon, you can acknowledge the alarm, delete the alarm or display all the cameras in alarm status.

Acknowledge alarm	Acknowledges the alarm. The flashing tab becomes static.
Delete alarm	Deletes the remote station from the device list.
Display all alarms	Displays all alarms in the image area. The system automatically selects the best type of display.

NOTICE!
The automatic display of incoming alarms in live and playback mode must be configured.
The incoming alarms are saved in the logbook.

5.2 Automatic Alarm Recording

Incoming alarms can be recorded automatically (standard) or manually on the recipient. The selection is made in the configuration. In both cases, all the cameras that are assigned to the alarm in the device list are displayed. Recording takes place without audio.

The tab flashes red. An audio signal sounds, if this has been configured.

1. Click the tab. The cameras or remote stations in alarm status are listed. The audio signal is switched off.

   The button for alarm recording is displayed.

2. Click the icon if you want to stop alarm recording.

	Alarm recording is stopped. Click the button to start alarm recording.
	Alarm recording is started. Click the button to stop alarm recording.

NOTICE!

- Alarm recording finishes when the alarm is deleted.
- The button for alarm recording is immediately displayed when incoming alarms are automatically displayed (see *Section 5.1.2 Automatic Display of Incoming Alarms*).

5.3 Creating/Editing Favorites

Favorites are a number of cameras that are combined together to give a better overview, e.g. cameras 1 - 4 in the 2x 2-image window view are combined together as an **Entry area** favorite. Favorites are available in live and playback mode.

Creating a new favorite

1. Select an image display in the display bar (see *Section 4.3.3 Buttons for Image Display*).

2. Using the "Drag and Drop" function, drag a camera from the device list into an image window. Continue doing this until all the cameras you require are in the various image windows.
   Note: When selecting a favorite, the live image of the camera is displayed in live mode and the saved image of the camera is displayed in playback mode.
3. Click the tab. You will see the Favorites list.
4. Right-click the device list. Select the **New favorite** command.
5. Enter the name of the favorite in the dialog field and click **OK**. The cameras which you have already placed and the display you have selected are saved with this name and can be called up again.

Calling up a favorite

1. Click the tab. The previously saved favorites are displayed.
2. Double-click the favorite or click it with the right mouse button and select the command **Call up**. The setting for this favorite is displayed in the image area.

Editing a favorite

1. Double-click the favorite you want to edit.
2. Make the changes (e.g. image partitioning, cameras).
3. Place the mouse cursor on the name of the favorite and right click. Select the **Save favorite** command.

Editing the name of a favorite

1. Click the Favorites icon.
2. Place the mouse cursor on the name of the favorite and right click. Select the **Rename** command.
3. Enter the name of the favorite in the dialog field and click **OK**.

Changing the sequence of favorites

▶ Hold the left mouse button down and drag the favorite to the required position, then release the mouse button. The favorite is inserted in this position.

Deleting a favorite

1. Click the Favorites icon.
2. Right-click the name of the favorite. Select the **Delete** command.

5.4 Displaying the Logbook

System > **Logbook** menu

This function allows specific local events or events from a remote station to be displayed.

1. In **live mode**:
   – Select the **System** > **Logbook** menu.
   or
   – Click the icon under the image area.
   In **playback mode**:
   Select the **System** > **Logbook** menu.
2. In **Remote station**, select those remote stations in which you want to look for specific events.
3. Enter the time period in **Time period**.
4. In **Events**, select those events which you want to look for within the time period.
   The following events can be selected: start and shutdown operations, log-in and log-out operations, inputs, cameras, system alarms and export video procedures.
5. Click **Search**. The search results are listed in the lower part of the dialog box. You can sort the events if necessary. It is possible to change the column width. A maximum of 1000 entries are displayed.
6. Click **Print** to print the logbook.
   Note: To save the search results, select **Fax** under printer name in the dialog box and select **Print to file**. Confirm with **OK**. The file is saved in C:\Program Files\DiBos. It can be opened with the **Windows Picture and Fax Viewer** program.

Sorting the list

Entries are displayed with **Category**, **Type**, **Date** and **Message**. You can also sort by these criteria.

Left-click a field in the title bar, e.g. **Category**. An arrow appears on the right-hand side of the field.

An arrow in the title bar field shows the criterion by which the entries have been classified. The direction of the arrow - upward or downward - shows whether the column has been sorted in ascending or descending order. You can switch between ascending and descending order by clicking with the mouse.

	The column is classified in ascending order. **Note:** It is only when the **Date** column is sorted in ascending order that the latest events appear right at the top of the list.
	The column is classified in descending order.

Changing the sequence of columns

Hold down the left mouse button to drag a title bar field to the required position in the title bar. Release the mouse button and the field is inserted in this position.

Changing the column width

Click the dividing line between the columns until a cross with arrow heads pointing left and right appears. Hold the left mouse button down and move this cross to the right or left. The column width is changed.

	Moving the arrowhead to the left or right changes the column width.

5.5 Starting/Exiting a Camera Round

icon

With a camera round, all cameras selected in the image area are displayed one after the other. The cameras are shown in single image mode.

1. Click the icon in the display bar to start the camera round.
2. In **Time interval in seconds**, enter the time after which the system must switch from one camera to the next.
3. Click **OK**. The camera round is started.
4. To stop the camera round, click the icon once more.

5.6 Logging Off/Changing User

System > **Log off/Change user** menu

1. Select the **System** > **Log off/Change user** menu.
2. Enter the name and password of the new user.
3. Click **OK**.

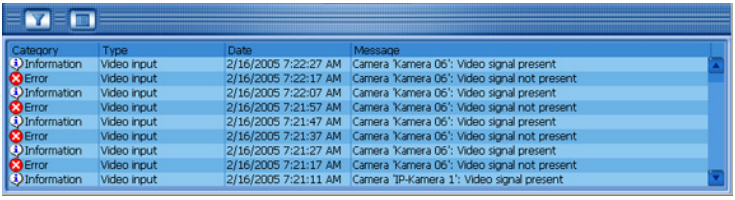
6 Operation - Live Mode

6.1 Filtering the Event List

icon

The 100 most recent events are listed in an event list in the event field. This list includes events that have been received since the last login.

If you only want to display specific events, you can filter the event list using these criteria.


Category Type Date Message
Information Video input 2/16/2005 7:22:27 AM Camera 'Kamera 06': Video signal present
Error Video input 2/16/2005 7:22:17 AM Camera 'Kamera 06': Video signal not present
Information Video input 2/16/2005 7:22:07 AM Camera 'Kamera 06': Video signal present
Error Video input 2/16/2005 7:21:57 AM Camera 'Kamera 06': Video signal not present
Information Video input 2/16/2005 7:21:47 AM Camera 'Kamera 06': Video signal present
Error Video input 2/16/2005 7:21:37 AM Camera 'Kamera 06': Video signal not present
Information Video input 2/16/2005 7:21:27 AM Camera 'Kamera 06': Video signal present
Error Video input 2/16/2005 7:21:17 AM Camera 'Kamera 06': Video signal not present
Information Video input 2/16/2005 7:21:11 AM Camera 'IP-Kamera 1': Video signal present

1. Click the icon under the image area. A dialog box opens.
2. Select the criteria.
3. Click **OK**.

Sorting the list

Entries are displayed with **Category**, **Type**, **Date** and **Message**. You can also sort by these criteria.

Left-click a field in the title bar, e.g. **Category**. An arrow appears on the right-hand side of the field.

An arrow in the title bar field shows the criterion by which the entries have been classified. The direction of the arrow - upward or downward - shows whether the column has been sorted in ascending or descending order. You can switch between ascending and descending order by clicking with the mouse.

	The column is classified in ascending order. **Note:** It is only when the **Date** column is sorted in ascending order that the latest events appear right at the top of the list.
	The column is classified in descending order.

Changing the sequence of columns

Hold down the left mouse button to drag a title bar field to the required position in the title bar. Release the mouse button and the field is inserted in this position.

Changing the column width

Click the dividing line between the columns until a cross with arrow heads pointing left and right appears. Hold the left mouse button down and move this cross to the right or left. The column width is changed.

	Moving the arrowhead to the left or right changes the column width.

6.2 Zooming/Controlling Dome Cameras and Pan/Tilt Cameras

You can zoom and control the cameras in the control and status field, as well as directly in the image window.

Controlling/zooming in control and status field

1. Select the image window of the camera which you want to zoom or control. The image window now has a yellow border.
2. Click the tab in the control and status field. The control field for dome cameras and pan/tilt cameras is displayed.
3. Click the various control elements in order to zoom or pan the cameras.

	Pan the camera to the left/right.
	Pan the camera up/down.
	Pans the camera in all directions. Move the mouse cursor to the icon and drag it in the direction you would like to pan the camera while holding down the left mouse button.
	Enlarges (wide angle)/reduces (tele) the image angle.

	Focus far/focus near (sets the image so it is in focus).
	Close iris/open iris
	Sets the pan, tilt and zoom speed.
(on left)	Camera positions which have been set can be called up. To do so, click the down arrow and make your selection.
(on right)	Camera commands which have been saved can be called up. To do so, click the down arrow and make your selection.

Controlling/zooming cameras in the image window

1. Move the mouse cursor into the image window of a dome or pan/tilt camera. This changes the appearance of the mouse cursor.

	Pan the camera in the relevant direction using the arrow keys. To do so, hold the left mouse button down.	
		Pan to left/right. etc. **Note:** The closer you click to the image edge the faster the camera pans or tilts.
		Enlarges (wide angle)/reduces (tele) the image angle.

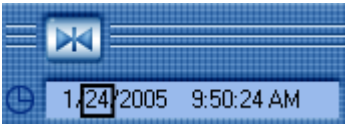
2. Click with the right mouse button on the image window in order to call up the following commands:
   - Focus near/far
   - Close iris/open iris
   - Retrieve prepositions
   - Retrieve macros saved

NOTICE!
The digital zoom function is not available for dome or pan/tilt cameras.

7 Operation - Playback Mode

7.1 Searching for Date and Time

The saved images can be searched according to date and time.



Proceed as follows:

1. Using the mouse cursor, select the date and time you want to edit and make the necessary entries.
2. Press **Enter**.
   The images are displayed in the image area.

7.2 Searching for Events

Using the arrow keys, jump to the next or previous saved event from the cameras displayed.

Proceed as follows:

1. Click the down arrow beside the selection field and select the event. The events that can be selected are alarm, motion, video loss, continuous recording and protected.
2. Click the arrow to jump to the previous event.
   or
   Click the arrow to jump to the next event.
   The images are displayed in the image area.

NOTICE!

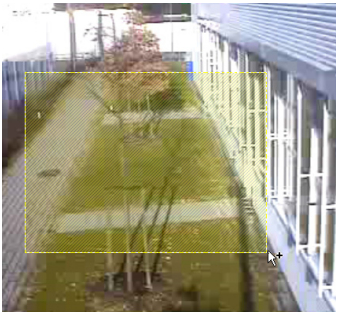
With the alarm, video loss, continuous recording and protected events, the system jumps to the previous or next event. With the motion event, the system jumps to the next or previous image with motion information.

7.3 Searching for Motion

Selected image window > **Search for motion** menu

You can check the image in the selected image window for motion. It is only possible to search for motion with locally connected cameras and not with IP cameras.

1. Select the image window of the camera whose images you want to check for motion. The image window now has a yellow border.
2. Using the hairline, highlight the time period on the timeline.
3. Select the **Selected image window** > **Search for motion** menu or click the icon beneath the image area.
4. The current hairline value in the timeline is copied to the **from** and **to** fields for the start and end time and date. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date and time.
5. Select **Display grid**. A grid is placed above the image. Every cell in the grid can be selected for search purposes.
6. Select those cells you want to check for motion. To select an area, left-click or drag the cursor over an area while holding down the left mouse button.

	Selected areas: – Left-click or – Hold the left mouse button down and drag an area. A plus sign appears beside the mouse cursor to show that the area has been selected and will be assessed during the search. **Note:** Areas selected for the search are shown shaded.

	Non-selected areas: – Right-click or – Hold the right mouse button down and drag an area. A minus sign appears beside the mouse cursor to show that the area has not been selected and will not be assessed during the search. **Note:** Areas excluded from the search are shown unshaded.

7. Click **OK**. The search results are listed in the timeline area.

7.4 Searching for Additional Data

Recording > **Search for additional data of displayed cameras** menu

or

Recording > **Search for additional data from all cameras** menu

You can search all the cameras displayed in the image area or all connected cameras for additional data here.

1. Using the hairline, highlight the time period on the timeline.
2. Select the **Recording** > **Search for additional data of displayed cameras** or **Recording** > **Search for additional data from all cameras** menu or click the icon below the image areas.
3. The current hairline value in the timeline is copied to the **from** and **to** fields for the start and end time and date. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date and time.
4. Select the criteria you would like to use for the search.
5. Click **OK**. The search results are listed.

NOTICE!

Connected ATMs and foyer card readers transfer fixed data to the DiBos system via an RS 232 interface. It is also possible to configure freely defined data via virtual detectors.

Saved additional data is:

- ATM data (depending on the ATM protocol)
  - Bank sort code
  - Amount
  - Date/time
  - Transaction number
  - Account number (or credit card number)

- Foyer card reader data
  - Bank sort code
  - Account number (or credit card number)
- POS server data/ATM/POS bridge data
  The individual data fields of the data stream can be saved as additional data, e.g. date, time, unit number.
- Freely definable data
  This data is specified in the configuration.

7.5 Authenticating Images from Several Cameras

Recording > **Authenticate video** menu

The recorded images can be checked for changes. Checks are carried out on the images of the cameras displayed in the image area.

1. Using the hairline, highlight the time period on the timeline.
2. Select the **Recording** > **Authenticate video** menu.
3. The current hairline value in the timeline is copied to the **from** and **to** fields for the start and end time and date. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date and time.
4. Click **Start** to start authentication.

7.6 Authenticating a Single Image

Selected image window > **Authenticate** menu

The image in the selected image window is then checked to see whether it has been changed. Only the displayed image is checked.

1. Select the image window of the camera whose image you want to check.
2. Click the **Selected image window** > **Authenticate** menu. A message shows you whether the image has been changed or not.

7.7 Exporting Files

icon

Exports video and audio data to a CD/DVD drive, a network drive or a USB drive. The files are exported in DiBos or ASF format.

When exporting data in DiBos format, the Bosch Archive Player can also be stored. Administrator rights are necessary for installing the Bosch Archive Player. Only user rights are necessary for playback. The Bosch Archive Player can run on all Windows XP and Windows 2000 systems.

Data which has been exported in ASF format can be played with default software, e.g. Windows Media Player.

Individual search results or selected time periods can be exported.

NOTICE!

The exported images contain the time of the time zone into which the images are being transferred.

Exporting the data of a time period

The video and audio data of the displayed cameras can be exported for a time period which has been selected in the timeline area.

1. Use the cursor to select the time period on the timeline (see *Section 4.6.2 Camera List with Timeline*).
2. Click the icon. The export dialog box opens.
3. In **Data carriers**, select the medium to which you want to save the time period.
4. Specify the **Format** of the files to be exported. You may also have to specify the **Quality** of the files.
5. The current hairline value in the timeline is copied to the **from** and **to** fields for the start and end time and date. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date and time.

6. Click **OK**. The files are exported.

Exporting single search entry data

It is possible to export the data from single search entries. If you want to export several entries, you must export them one by one.

1. Select an entry in the search result with the left mouse button.
2. Click the icon. The export dialog box opens.
3. In **Data carriers**, select the medium to which you want to save the time period.
4. Specify the **Format** of the files to be exported. You may also have to specify the **Quality** of the files.
5. The start and end time and date of the selected entry are copied to the **from** and **to** fields. The pre-alarm and post-alarm time of the event is contained in this time. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date and time.
6. Click **OK**. The files are exported.

7.8 Showing Exported Files

Recording > **Load exported video**

Exported audio and video files can be shown in order to display their saved images.

1. Select the **Recording** > **Load exported video** menu.
2. Select the drive on which the exported files are located. The files are displayed in the list field beneath the drive.
3. In the list box, click the file whose images you want to view.
4. Click **OK**.

   An additional tab is added to the device list and the names of the exported cameras are displayed.
5. Double-clicking the camera icon shows the image in the selected window of the image area. The image can be displayed in any window at all using the "Drag and drop" function. If several cameras are assigned to one remote station, you must first double-click the remote station. Only then are the cameras listed and can be selected by double-clicking.

NOTICE!

– In the timeline, the time is shown for the time zone that applies to the system into which the data is being imported.
– Select the **Recording** > **Hide exported video** menu to remove the exported files from the display.

7.9 Protecting Video

Recording > **Protect video** menu

This function allows you to protect the video and audio data of the displayed cameras against being automatically overwritten.

1. Use the cursor to select the time period on the timeline (see *Section 4.6.2 Camera List with Timeline*).
2. Select the **Recording** > **Protect video** menu.
3. The date currently shown in the time period's hairline is copied to the **from** and **to** fields. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date.

   Note: The data can be protected for one day or for a time period with any number of days. Data protection begins at 00:00 and ends at 24:00 for any given day.
4. Click **Start**. The protected data is shown shaded in the timeline area.

7.10 Removing the Protection from a Recording

Recording > **Recording: remove protection** menu

This function allows you to remove the automatic overwrite protection for the video and audio data of displayed cameras. The protected data is shown shaded in the timeline area.

1. Use the cursor to select the time period on the timeline (see *Section 4.6.2 Camera List with Timeline*).
2. Select the **Recording** > **Recording: remove protection** menu.
3. The date currently shown in the time period's hairline is copied to the **from** and **to** fields. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date.
   Note: Data protection can be removed for one day or for a time period with any number of days. Image protection is removed at 00:00 and reinstated at 24:00 for any given day.
4. Click **Start**. The shading is removed from the timeline area.

7.11 Deleting a Video

Recording > **Delete video** menu

You can use this function to delete images from the cameras displayed.

1. Use the cursor to select the time period on the timeline (see *Section 4.6.2 Camera List with Timeline*).
2. Select the **Recording** > **Delete video** menu.
3. Select the time period:

Delete images in time period	Only the images in this time period are deleted.
Delete older images up to and including	All images which are older than the final date are deleted.

4. The date currently shown in the time period's hairline is copied to the **from** and **to** fields. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date.
   Note: Images are deleted from one day or from a time period with any number of days. Image deletion begins at 00:00 and ends at 24:00 for any given day.
5. Click **Start**.

8 The Icon Overview

You will find the following symbols in live and playback mode:

	Dome camera: live images are only displayed (not saved)
	Dome camera: poor image quality (too light, too dark, noisy), reference image check failed
	Dome camera: live images are displayed and saved
	Dome camera: no camera signal
	Camera: live images are only displayed (not saved)
	Camera: poor image quality (too light, too dark, noisy), reference image check failed
	Camera: live images are displayed and saved
	Camera: no camera signal
	Network dome camera: live images are only displayed (not saved)
	Network dome camera: poor image quality (too light, too dark, noisy), reference image check failed
	Network dome camera: live images are displayed and saved
	Network dome camera: no camera signal from the dome camera on the network module
	Network camera: connection has been established

	Network camera: poor image quality (too light, too dark, noisy), reference image check failed
	Network camera is recording
	Network camera: no camera signal
	Network remote station DiBos 8: connection has been made
	Network remote station DiBos 8: connection is being established/connection cannot be established
	Network remote station DiBos 8: connection has been disconnected
	Network remote station DiBos 7: connection has been made
	Network remote station DiBos 7: connection is being established/connection cannot be established
	Network remote station DiBos 7: connection has been disconnected
	RAS remote station DiBos 8: connection has been made
	RAS remote station DiBos 8: connection is being established/connection cannot be established
	RAS remote station DiBos 8: connection has been disconnected
	RAS remote station DiBos 7: connection has been made
	RAS remote station DiBos 7: connection is being established/connection cannot be established
	RAS remote station DiBos 7: connection has been disconnected

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